

ELECTRONIC INFORMATION DISCLOSURE STATEMENT

Electronic Version v18

Stylesheet Version v18.0

7-13-05

Title of Invention	Method and apparatus for specifying encoded sub-networks
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Application Number : 10/066188 

Confirmation Number: 4299

First Named Applicant: Steven Teig

Attorney Docket Number: SPLX.P0095

Art Unit: 2825

Examiner: Sun J. Lin

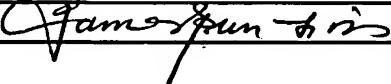
Search string: (6587990 or 6594808 or 5493504 or 66873883).pn

US Patent Documents

Note: Applicant is not required to submit a paper copy of cited US Patent Documents

init	Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass
1	1	6587990	2003-07-01	Andreev et al.		—	—
2	2	6594808	2003-07-15	Kale et al.	B1	—	—
3	3	5493504	1996-02-20	Minato		—	—
4	4	66873883	2004-02-03	Cohn et al.	B2	—	—

Signature

Examiner Name	Date
	7-13-05

ELECTRONIC INFORMATION DISCLOSURE STATEMENT

Electronic Version v18

Stylesheet Version v18.0

6-24-05

Title of Invention	Method and Apparatus for Specifying Encoded Sun-Networks
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Application Number : 10/066188



Confirmation Number: 4299

First Named Applicant: Steven Teig

Attorney Docket Number: SPLX.P0095

Art Unit: 2825

Examiner: Kenny Lin LIN, SUN JAMES

Search string: (6140839 or 20020079921).pn

US Patent Documents

Note: Applicant is not required to submit a paper copy of cited US Patent Documents

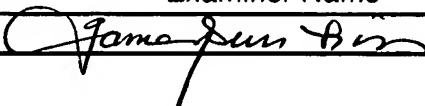
init	Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass
g3k	1	6140839	2000-10-31	Kaviani		—	—

US Published Applications

Note: Applicant is not required to submit a paper copy of cited US Published Applications

init	Cite.No.	Pub. No.	Date	Applicant	Kind	Class	Subclass
g3k	1	20020079921	2002-06-27	Kaviani		—	—

Signature

Examiner Name	Date
	9-1-05

ELECTRONIC INFORMATION DISCLOSURE STATEMENT

Electronic Version v18

Stylesheet Version v18.0

3-23-05

Title of Invention	Method and apparatus for specifying encoded sub-networks						
Application Number :	10/066188						
Confirmation Number:	4299						
First Named Applicant:	Steven Teig						
Attorney Docket Number:	SPLX.P0095 (2002-106)						
Art Unit:	2154 2825						
Examiner:	KENNY S LIN LIN, SUN JAMES						
Search string:	(6333918).pn						

US Patent Documents

Note: Applicant is not required to submit a paper copy of cited US Patent Documents

init	Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass
<u>ST</u>	1	6333918	2001-12-25	Hummel	B1	—	—

Signature

Examiner Name	Date
	9-1-05

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Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet	1	of	1	Application Number	10/066,188
				Filing Date	1/31/2002
				First Named Inventor	Steven Teig, et al.
				Group Art Unit	2182 2825
				Examiner Name	Eron L. Serrell LIN, SUN JAMES
				Attorney Docket Number	SPLX.P0095

NON PATENT LITERATURE DOCUMENTS

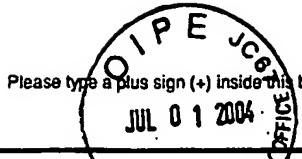
Examiner* Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ⁶
<i>gsl</i>	1.	DREESEN J., Standard Cell Development Flow, IEEE, 1990, pp. 450-455	

Examiner Signature	<i>James Sun Lin</i>	Date Considered	9-1-05
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* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

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Substitution of form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Application Number	10/066,188
				Filing Date	1/31/2002
				First Named Inventor	Steven Teig, et al.
				Group Art Unit	2182 2825
				Examiner Name	Eron L Sorrell LIN, SUN JAMES
Sheet	1	of	1	Attorney Docket Number	SPLX.P0095

NON PATENT LITERATURE DOCUMENTS					
Examiner* Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			
<i>gsl</i>	1.	Krishnamoorthy et al., Boolean Matching of Sequential Elements, Proceedings of the 31st annual conference on Design automation conference, pp. 691-697, June 06-10, 1994, San Diego, California, United States.			

Examiner Signature	<i>James L. Sorrell</i>	Date Considered	9-1-05
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Application Number:	10/066188						
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First Named Applicant:	Steven Teig						
Attorney Docket Number:	SPLX.P0095						
Art Unit:	2182 2825						
Examiner:	Eren J. Sorrell LIN, SUN JAMES S						
Search string:	(5668732 or 5696694).pn.						

US Patent Documents

Note: Applicant is not required to submit a paper copy of cited US Patent Documents

init	Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass
921	1	5668732	1997-09-16	Khouja et al.			
921	2	5696694	1997-12-09	Khouja et al.			

Signature

Examiner Name	Date
	9-1-05

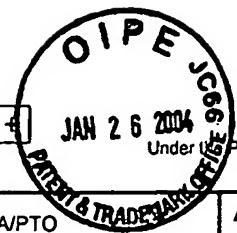


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Application Number:	10/066188							
Confirmation Number:	4299							
First Named Applicant:	Steven Teig							
Attorney Docket Number:	SPLX.P0095							
Art Unit:	2164 2825							
Examiner:	John A Fellansbee LIN, SUN JAMES							
Search string:	(6216252).pn.		Technology Center 2100					
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US Patent Documents								
Note: Applicant is not required to submit a paper copy of cited US Patent Documents								
init	Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass	
1	1	6216252	2001-04-10	Dangelo et al.	B1			
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Examiner Name					Date			
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Substitute for form 1449A/PTO				Application Number	10/066,188
				Filing Date	1/31/02
				First Named Inventor	Steven Teig, et al.
				Group Art Unit	2661 2825
				Examiner Name	LIN, SUN JAMES
Sheet	1	of	1	Attorney Docket Number	SPLX.P0095

U.S. PATENT DOCUMENTS						
Examiner* Initials	Cite No. ¹	U.S. Patent Document Number	Kind Code ² (if known)	Date of Publication MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
<i>ST</i>	1.	6,519,754	B1	02-11-2003	McElvain et al.	

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Examiner Signature	<i>James Sun James</i>	Date Considered	9-1-05
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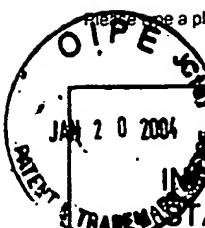


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				Filing Date	1/31/02
				First Named Inventor	Steven Teig, et al.
				Group Art Unit	2001 2825
				Examiner Name	LIN, SUN JAMES
Sheet	1	of	2	Attorney Docket Number	SPLX.P0095

U.S. PATENT DOCUMENTS					
Examiner* Initials	Cite No. ¹	U.S. Patent Document Number	Kind Code ² (if known)	Date of Publication MM-DD-YYYY	Name of Patentee or Applicant of Cited Document
<i>ST</i>	1.	2002/0157063	A1	10-24-2002	Besson
	2.	2002/0178432	A1	11-28-2002	Kim et al.
	3.	2003/0145288	A1	07-31-2003	Wang et al.
	4.	4,703,435		10-27-1987	Darringer et al.
	5.	5,003,487		03-26-1991	Drumm et al.
	6.	5,537,330		07-16-1996	Damiano et al.
	7.	5,892,678		04-06-1999	Tokunoh et al.
	8.	5,903,466		05-11-1999	Beausang et al.
	9.	5,991,524		11-23-1999	Belkhale et al.
	10.	6,080,204		06-27-2000	Mendel
	11.	6,311,317	B1	10-30-2001	Khoche et al.
	12.	6,389,586	B1	05-14-2002	McElvain
	13.	6,397,170	B1	05-28-2002	Dean et al.
	14.	6,421,818	B1	07-16-2002	Dupenloup et al.
	15.	6,446,240	B1	09-03-2002	Lyer et al.
	16.	6,453,447	B1	09-17-2002	Gardner et al.
	17.	6,470,486	B1	10-22-2002	Knapp
	18.	6,519,609	B1	02-11-2003	Touzet
	19.	6,539,536	B1	03-25-2003	Singh et al.
	20.	6,543,037	B1	04-01-2003	Limqueco et al.
<i>ST</i>	21.	6,546,541	B1	04-08-2003	Petranovic et al.

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Examiner Signature	<i>James sun James</i>	Date Considered	9-1-05
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JAN 20 2004 Substitute for form 1449A/PTO				Application Number	10/066,188
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Filing Date	1/31/02
(use as many sheets as necessary)				First Named Inventor	Steven Teig, et al.
				Group Art Unit	266+ 2825
				Examiner Name	LIN, SUN JAMES
Sheet	2	of	2	Attorney Docket Number	SPLX.P0095

U.S. PATENT DOCUMENTS					
<i>gk</i>	22.	6,618,835	B1	09-09-2003	Garlapati et al.

NON PATENT LITERATURE DOCUMENTS					
Examiner's Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			
<i>gk</i>	23.	NN78055443, "Automatic Remap", IBM Technical Disclosure Bulletin, Vol. 20, No. 12, May 1978, pp. 5443-5445 (5 pages).			
	24.	NN9411291, "Design of Portable Library using Parameterized Cells", IBM Technical Disclosure Bulletin, Vol. 37, No. 11, pp. 291-292 (4 pages).			
	25.	Markovic et al., "FPGA to ASIC Conversion Design Methodology with the Support for Fast Retargetting to Different CMOS Implementation Technologies", Proceedings of 2002 22 nd International Conference on Microelectronics, Vol. 2, 14 May 2000, pp. 703-706.			
	26.	Ruiz et al., "Design and Prototyping of DSP Custom Circuits Based on a Library of Arithmetic Components", Vol. 1, 9 November 1997, pp. 191-196.			
<i>gk</i>	27.	Tamiya, Y., "Delay Estimation for Technology Independent Synthesis", 1997 Proceedings of the ASP-DAC '97, Asia and South Pacific Design Automation Conference, 28 January 1997, pp. 31-36.			

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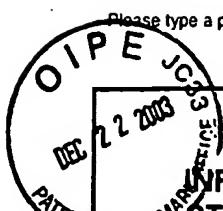
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Examiner Signature	<i>James Sun Lin</i>	Date Considered	9-1-05
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U.S. PATENT DOCUMENTS

Examiner* Initials	Cite No. ¹	U.S. Patent Document		Date of Publication MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code* (if known)			
<i>JSR</i>	1.	5,521,835		05-28-1996	Trimberger	
	2.	5,610,829		03-11-1997	Trimberger	
	3.	6,035,107		03-07-2000	Kuehlman et al.	
	4.	6,334,205		12-25-2001	Iyer et al.	
	5.	6,470,478	B1	10-22-2002	Bargh et al.	
	6.	6,496,972	B1	12-17-2002	Segal	
	7.	6,523,156	B2	02-18-2003	Cirit	
<i>JSR</i>	8.	6,574,779	B2	06-03-2003	Allen et al.	

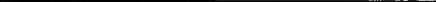
NON-PATENT LITERATURE DOCUMENTS

Examiner* Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ⁶
	9.	Yi, J. H. et al., Technology Mapping for Storage Elements Based on BDD matching, Proceedings of the 40 th Midwest Symposium on Circuits and Systems, pp. 1099-1102, vol.2, August 1997.	

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Examiner Signature		Date Considered	9-1-05
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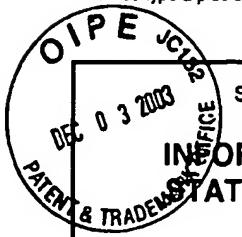
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Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Application Number	10/066,188
				Filing Date	1/31/02
				First Named Inventor	Steven Teig, et al.
				Group Art Unit	2661 2825
				Examiner Name	LIN, SUN JAMES
Sheet	1	of	1	Attorney Docket Number	SPLX.P0095

U.S. PATENT DOCUMENTS						
Examiner* Initials	Cite No. ¹	U.S. Patent Document Number	Kind Code ² (if known)	Date of Publication MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
<i>jsr</i>	1.	5,519,630		05-21-1996	Nishiyama et al.	
	2.	5,537,341		07-16-1996	Rose et al.	RECEIVED
	3.	5,696,974		12-09-1997	Agrawal et al.	
	4.	5,574,441		05-19-1998	Tokunoh et al.	DEC 05 2003
	5.	5,787,010		07-28-1998	Schaefer et al.	
	6.	6,023,566		02-08-2000	Belkhale et al.	Technology Center 2600
<i>jsr</i>	7.	6,301,696	B1	11-09-2001	Lien et al.	

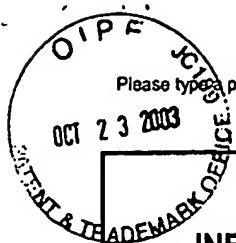
NON PATENT LITERATURE DOCUMENTS					
Examiner* Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			⁴
<i>jsr</i>	8.	Crastes, M. et al., A Technology Mapping Method Based on Perfect and Semi-Perfect Matchings, Design Automation Conference, 1991, 28 th ACM/IEEE, June 17-21, 1991, pp. 93-98.			
<i>jsr</i>	9.	Devadas, S. et al., Synthesis and Optimization for robustly delay-fault testable combinational logic circuits, Design Automation Conference, 1990, 27 th ACM/IEEE, June 24-28, 1990, pp. 221-227.			

Examiner Signature	<i>James Sun Ains</i>	Date Considered	9-1-05
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This collection of information is required by 37CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing the burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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<p>Substitute for form 1449A/PTO</p> <p>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</p> <p>(use as many sheets as necessary)</p>				Application Number	10/066,188
				Filing Date	1/31/02
				First Named Inventor	Steven Teig, et al.
				Group Art Unit	2664 2825
				Examiner Name	LIN, SUN JAMES
Sheet	1	of	1	Attorney Docket Number	SPLX.P0095

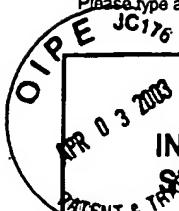
U.S. PATENT DOCUMENTS						
Examiner Initials	Cite No. ¹	U.S. Patent Document Number	Kind Code ² (if known)	Date of Publication	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
						MM-DD-YYYY
<i>Jeff</i>	1.	5,311,442		05-10-1994	Fukushima	
	2.	5,526,276		06-11-1996	Cox et al	
	3.	5,752,000		05-12-1998	McGeer et al	
	4.	6,086,626		07-11-2000	Jain et al	RECEIVED
	5.	6,102,964		08-15-2000	Tse et al	OCT 27 2003
	6.	6,134,705		10-17-2000	Pedersen et al	Technology Center 2600
	7.	2001/013113		08-09-2001	Matsunaga	
	8.	6,298,472		10-02-2001	Phillips et al	
	9.	6,336,208		01-01-2002	Mohan et al	
	10.	6,473,884		10-29-2002	Ganai et al	
	11.	6,490,717		12-03-2002	Pedersen et al	
<i>Jeff</i>	12.	6,546,539		04-08-2003	Lu et al	

Examiner Signature	<i>James Sun Lin</i>	Date Considered	9-1-05
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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
(use as many sheets as necessary)

Sheet

1

of

2

Application Number	10/066,188
Filing Date	1/31/02
First Named Inventor	Steven Teig, et al.
Group Art Unit	2601 2825
Examiner Name	LIN, SUN JAMES
Attorney Docket Number	SPLX.P0095

RELATED U.S. PATENT APPLICATIONS

Examiner* Initials	Cite No. ¹	U.S. Patent Application		Name of Patentee or Applicant of Cited Document	Date of Filing MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Serial Number				
ST	1.	10/062,017		Steven Teig & Asmus Hetzel	01-31-02	
	2.	10/061,459		Steven Teig & Asmuz Hetzel	01-31-02	
	3.	10/062,014		Steven Teig & Asmus Hetzel	01-31-02	
	4.	10/062,044		Steven Teig & Asmuz Hetzel	01-31-02	
	5.	10/066,264		Steven Teig & Asmus Hetzel	01-31-02	
	6.	10/062,992		Steven Teig & Asmus Hetzel	01-31-02	
	7.	10/061,474		Steven Teig & Asmuz Hetzel	01-31-02	
	8.	10/061,719		Steven Teig & Asmus Hetzel	01-31-02	
	9.	10/066,456		Steven Teig & Asmus Hetzel	01-31-02	
	10.	10/062,993		Steven Teig & Asmus Hetzel	01-31-02	
ST	11.	10/062,047		Steven Teig & Asmuz Hetzel	01-31-02	

U.S. PATENT DOCUMENTS

Examiner* Initials	Cite No. ¹	U.S. Patent Document Number	Kind Code ² (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
ST	12.	5,649,165		Jain et al.	07-15-97	
ST	13.	6,301,687	B1	Jain et al.	10-09-01	

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Examiner Signature	<i>James Sun James</i>	Date Considered	9-1-05
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¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document.

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Substitute for form 1449A/PTO				Application Number	10/066,188
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Filing Date	1/31/02
(use as many sheets as necessary)				First Named Inventor	Steven Teig, et al.
				Group Art Unit	2661
				Examiner Name	
Sheet	2	of	2	Attorney Docket Number	SPLX.P0095

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS				
Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	²	
<i>ST</i>	14.	D. Jongeneel, R. Otten, Y. Watanabe and R. K. Brayton, Area and Search Space Control for Technology Mapping, 37 th Design Automation Conference, 86-91, 2000.	³	
	15.	Henrik Reif Andersen, An Introduction to Binary Decision Diagrams, October 1997 (minor revisions April 1998), 36 pp.	⁴	
	16.	Jerry Burch and David Long, Efficient Boolean Function Matching, Proc. ICCAD 1992, 408-411.	⁵	
	17.	John Fishburn, A Depth-Decreasing Heuristic for Combinational Logic; or How to Convert Ripple-Carry Adder into a Carry-Lookahead Adder or Anything In-Between, Proceedings of the 27 th Design Automation Conference, 361-364, 1990.	⁶	
	18.	Kamal Chaudhary and Massoud Pedram, A Near Optimal Algorithm for Technology Mapping Minimizing Area under Delay Constraints, Proceedings of the 29 th Design Automation Conference, 492-498, 1992.	⁷	
	19.	Kurt Keutzer, DAGON: Technology Binding and Local Optimization by DAG Matching, Proceedings of the 24 th Design Automation Conference, 341-347, 1987	⁸	
	20.	Randal Bryant, Symbolic Boolean Manipulation with Ordered Binary Decision Diagrams, CMU CS Tech Report CMU-CS-92-160.	⁹	
	21.	Uwe Hinsberger and Reiner Kolla, Boolean Matching for Large Libraries, Proceedings of the 35 th Design Automation Conference, 206-211, June 1998.	¹⁰	
	22.	Yuji Kukimoto, Robert K. Brayton, and Prashant Sawkar. Delay-Optimal Technology Mapping by DAG Covering, Dept. of Electrical Engineering and Computer Science, University of California, Berkeley, Strategic CAD Laboratories, Intel Corp., October 1997.	¹¹	
<i>ST</i>	23.	Zbigniew J. Czech, et al., An Optimal Algorithm for Generating Minimal Perfect Hashing Functions, Information Processing Letters, 43(5); 257-264, October 1992	¹²	

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Examiner Signature	<i>Steven Teig</i>	Date Considered	9-1-05
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